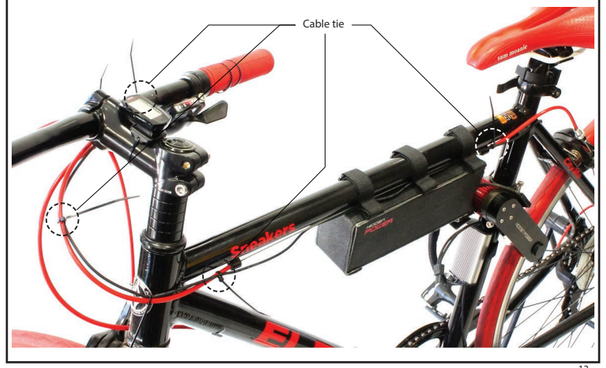
10 Battery Installation

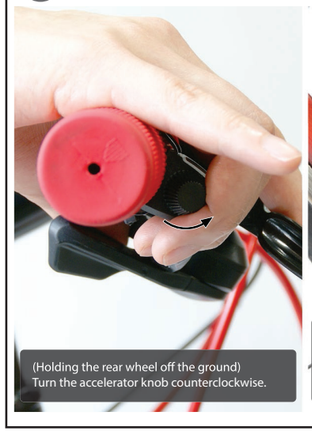
11 Fixing accelerator cable

For safety reasons, arrange all the cables using cable ties.

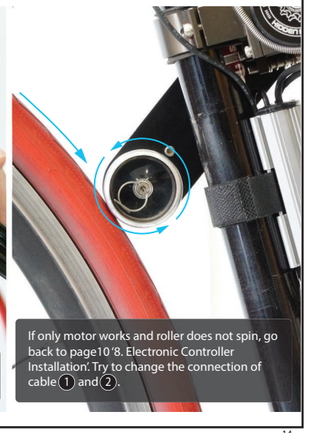


12 Test – Battery Socket Connection

13 Test (Throttle type)



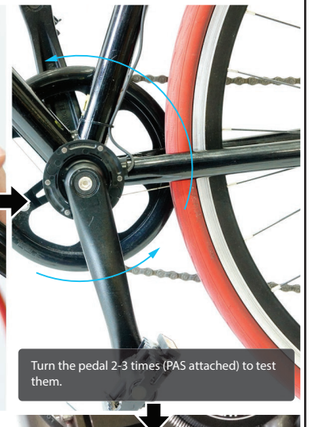
(Holding the rear wheel off the ground)
Turn the accelerator knob counterclockwise.



If only motor works and roller does not spin, go back to page10 '8. Electronic Controller Installation'. Try to change the connection of cable ① and ②.

14 Test (PAS type)

(Holding the rear wheel off the ground)
Turn the accelerator knob clockwise to the end ('0'set), and then turn the accelerator knob counterclockwise a little slow.

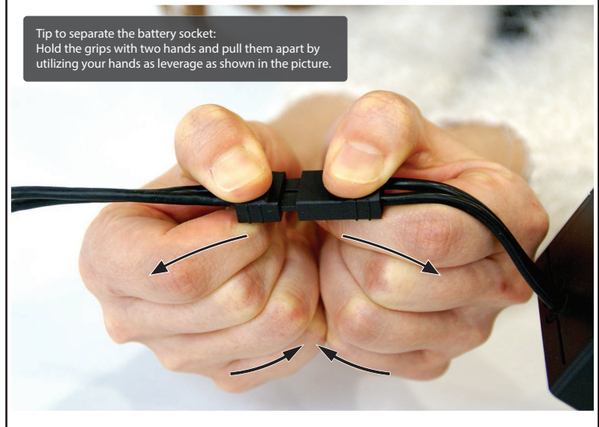


Turn the pedal 2-3 times (PAS attached) to test them.

If only motor works and roller does not spin, go back to page10 '8. Electronic Controller Installation'. Try to change the connection of cable ① and ②.

15 Tip & Cautions

Tip to separate the battery socket:
Hold the grips with two hands and pull them apart by utilizing your hands as leverage as shown in the picture.

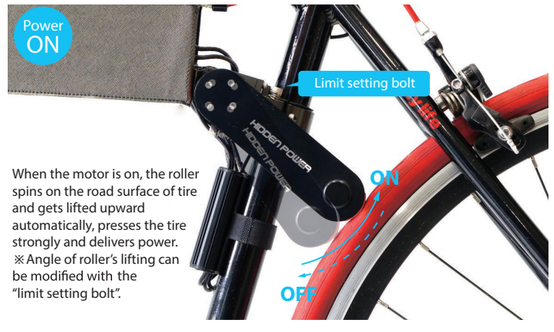


Standard Kit Installation Guide

HIDDEN POWER

1 Understanding the principle

This chapter will make installation process a lot easier. Understand the mutual relation between tire and roller when the motor is on/off. And find the optimal point of motor mount and install accordingly. The friction roller directly drives the road surface of the tire.



When the motor is on, the roller spins on the road surface of tire and gets lifted upward automatically, presses the tire strongly and delivers power.
※Angle of roller's lifting can be modified with the "limit setting bolt".

2 Preparation for installation

Adjust the air pressure to an optimum level.

Have the rear wheel raised from the ground using rear rack.

Three different sizes of rubber rings are provided to fit any seat tube.
Select the optimal rubber ring, and adjust to the seat tube diameter.
※ If the size of the seat tube is over 34.9mm, please contact the distributor.
(Applies to few carbon frame models)

Prior to installation

★ Please read 5-2) Limitations in the User Manual prior to installation.

■ HiddenPower kit is released as semi-assembled and can be installed on any bicycles with the installation guide regardless of bicycle size.
If the kit is not installed in accordance with the guideline, it may cause malfunctioning, or performance issues. In order to prevent product failure, contact HiddenPower distributors for precise installation advices.
* The kit is designed as universal-fit for various bicycles; the installation point may vary upon type of bicycles.
Please note the kit is originally developed for road-tire bikes. Users should make sure if the bicycle tires are road tires (flat surfaced tire) and start installation after checking and maintaining the designated tire pressure.

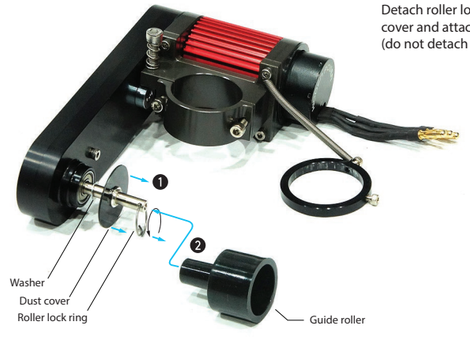
■ Tools for assembly
- Six-angle wrench (1.5mm/2.5mm/3mm), Nipper, Scissors, etc.

■ The principle of HiddenPower kit
HiddenPower kit is operated by driving part, which is fixed to seat tube, together with the friction roller that rolls on the road surface of tire. Thus the contacting point of roller and tire is crucial in order to deliver the maximal motor power to the tire for the best performance.

※ It is recommended to understand the standard kit operation principle through HiddenPower user manual before starting installation.
Friction roller slightly touches the road surface of the tire when the kit motor is off.
As soon as the motor runs, roller spins and gets lifted upward on the tire when roller starts to spin faster than the tire. This process of shifting of roller delivers the best torque for driving.

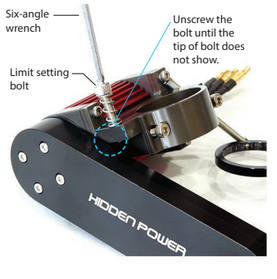
2 Preparation for installation

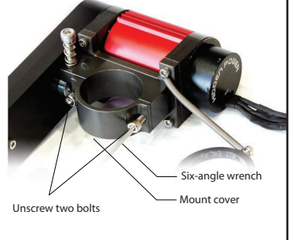
2-1. Installation guide roller



Detach roller lock ring, dust cover and attach guide roller. (do not detach the washer)

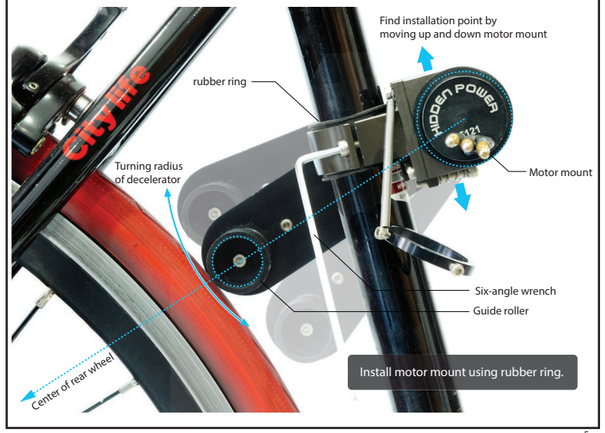
2-2. Separation of mount cover





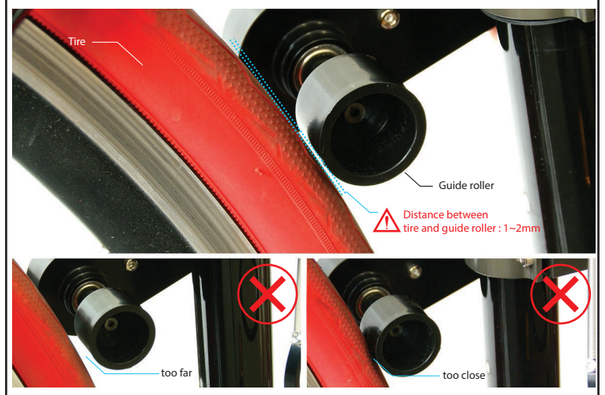
3 Mount Positioning

When motor, roller and tires are located in a straight line, utmost power is passed.
Thus, it's important to find the optimal position of motor mount using guide roller.

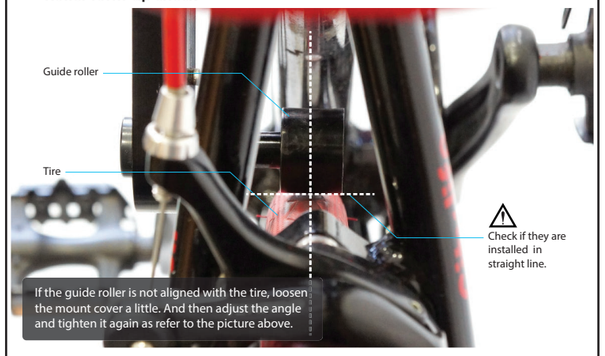


Install motor mount using rubber ring.

3 Mount Positioning



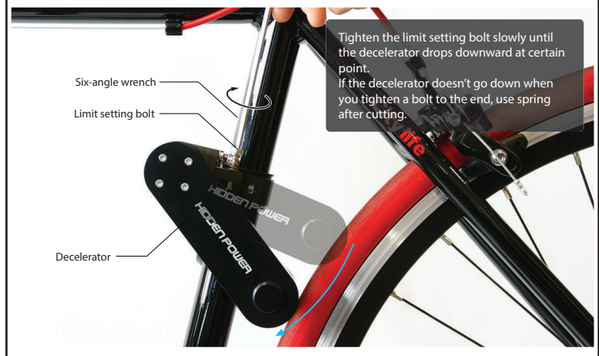
Roller form-up check



If the guide roller is not aligned with the tire, loosen the mount cover a little. And then adjust the angle and tighten it again as refer to the picture above.

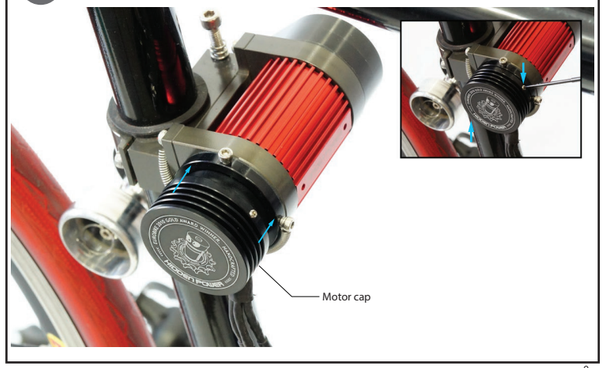
6 Roller Form-up Check and Motor Fix

Decelerator limit setting



Tighten the limit setting bolt slowly until the decelerator drops downward at certain point.
If the decelerator doesn't go down when you tighten a bolt to the end, use spring after cutting.

7 Motor cap assembly



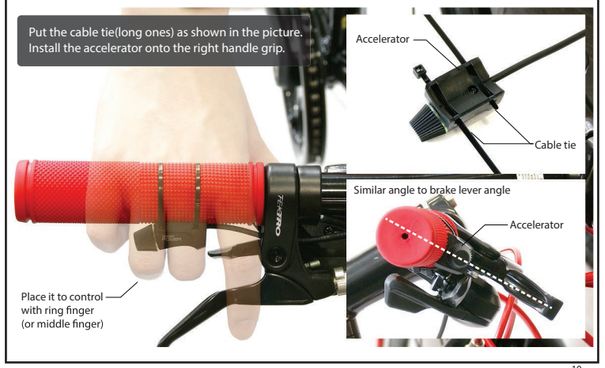
8 Electronic Controller Installation

Electronic controller installation

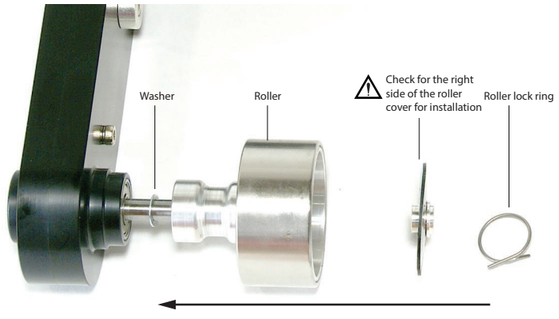
1. Attach the Electronic controller at seat tube tightly using the velcro tape.
2. Connect middle motor cable and middle controller cable (1). And connect red motor cable and red controller cable (2). And then, Connect the remaining cables (3).
3. Cover the cables with the corrugated tube.

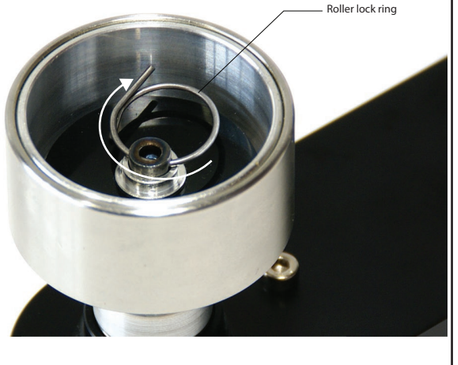
Accelerator Installation

Put the cable tie(long ones) as shown in the picture.
Install the accelerator onto the right handle grip.



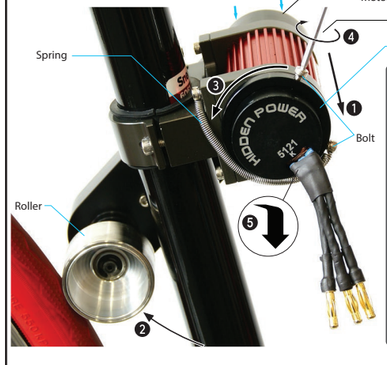
4 Driving Roller Assembly





5 Motor Installation

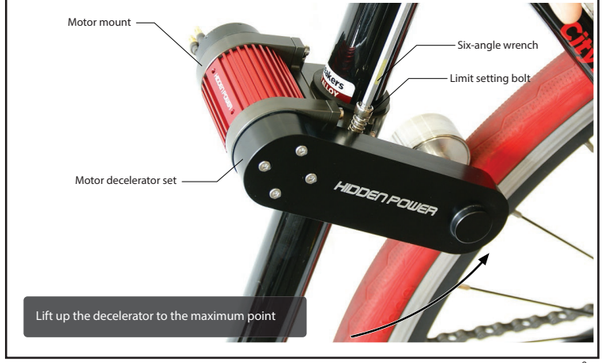
Motor-fixing ring Assembly



① Push the motor decelerator set decelerator in the direction of the arrow and put the motor-fixing ring into the opposite side of motor decelerator set.
② Hold the roller up with hand.
③ Turn the motor-fixing ring about 45 degrees to make spring tense.
④ Fix the two spring-fixing bolts with six-angle wrench. (in the order of 1-2-3-4)
※ If the bolts are too tighten-ed, it may damage the motor.
⑤ Bend the motor cable 90 degrees as shown with arrow mark in the picture.

6 Roller Form-up Check and Motor Fix

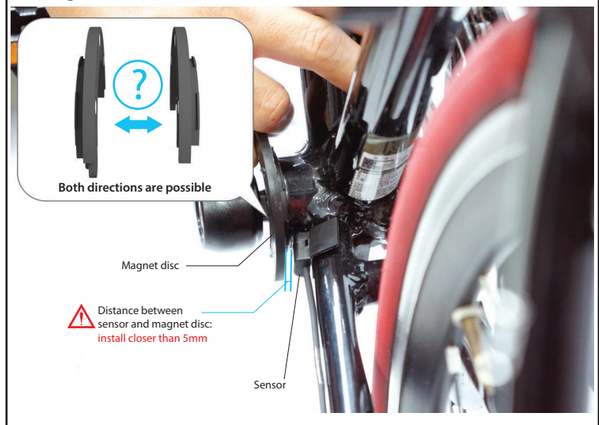
Decelerator limit setting

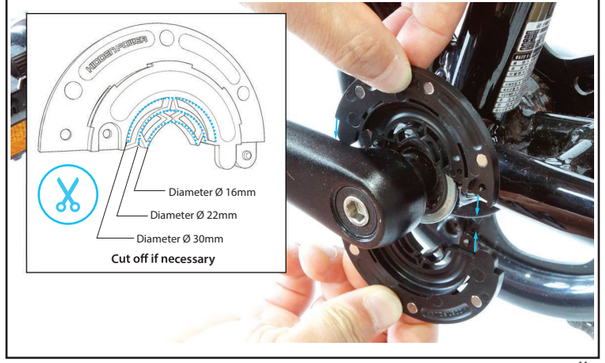


Lift up the decelerator to the maximum point

9 PAS sensor Installation Guide (PAS only)

Magnet disk installation





9 PAS sensor Installation Guide (PAS only)

Sensor installation

Use space block to make gap closer than 5mm between sensor and magnet.